

ABSTRACT OF THE DISCLOSURE

5 A method for matching an input pattern with a number of
stored reference patterns using a dynamic programming
matching technique is described. The reference patterns
of a reference signal which are at the end of a dynamic
programming path for a current input pattern are listed
in an active list. The dynamic programming paths are
10 propagated by processing the reference patterns on the
active list, and a new active list is generated for the
succeeding input pattern. The amount of processing
required for each pattern on the active list is reduced
by using a pointer which identifies the reference pattern
15 which is the earliest in the sequence of patterns of the
current reference signal listed on the new active list
during the processing of a preceding dynamic programming
path. In a second aspect, a speech recognition interface
is used as a control system for a telephony system.